

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF001 / Buffer Zone Closure Project**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0202**

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## **General Project Information**

### **Project Description Narratives**

#### **Purpose, Scope, and Technical Approach:**

Purpose: The purpose of this project is to perform groundwater/surface water monitoring, regulatory reporting and wastewater/s stormwater management field operations, OU 1 Closures, OU 3 Closures, OU 5 closure and OU 6 closure.

Portions of the buffer zone surrounding the Rocky Flats facility were historically used for Site office space and warehouse expansion, for limited waste disposal purposes, for multiple firing ranges and a live-fire shoothouse, and for surface water and groundwater monitoring and management. The overall objective of this project is to achieve interim operations and ultimate closure of buildings/facilities/structures/equipment/IHSSs in the Buffer Zone and prevent offsite migration of radiochemical contaminants via surface water/groundwater. This activity includes pond batch and release operations and conversion to a stormwater-only flow-through system, surface water and groundwater monitoring, and landlord operations & maintenance functions, D&D activities, closure of landfills, breaching of dams and environmental remediation activities. The completion of the Buffer Zone Closure Project will reduce risks to human health and environmental by remediating IHSSs, capping/closing the existing landfill and continuing long term surface water and groundwater monitoring surveillance programs. Specifically, the objectives of this project are:

- a. Continued interior/terminal pond operations and pond safety inspections, transitional conversion of pond system to wetlands and implementation of all Clean Water Act and Rocky Flats Cleanup Agreement (RFCA; i.e., RCRA & CERCLA) surface water and groundwater monitoring activities until the end state is reached.
- b. Pilot testing, phased installation and long-term implementation of the RFETS groundwater containment/treatment systems.
- c. Closure of the IHSSs in the Buffer Zone (both administrative and high ranked).
- d. Continued operation and maintenance of the 130 Cluster buildings/structures and other landlord functions until D&D activities commence or are completed.
- e. Closure of the Existing Sanitary Landfill (1968-present).
- f. Removal of all 130 Cluster trailers, buildings and facilities.
- g. Removal of all other buffer zone clusters and associates facilities.
- h. Removal of all non-end state surface water and groundwater monitoring and field support equipment in the buffer zone.

Scope: The buffer zone closure project will involve:

- a. Operation of RFCA Integrated Monitoring Plan (IMP) groundwater wells and surface water monitoring stations until D&D and capping activities

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## **Project Description Narratives**

are complete.

b. Operation of the interior and terminal ponds (Building 995 industrial wastewater plus stormwaters), conversion of the ponds to a flow-through system and eventually conversion to wetlands via dam breaching field-construction operations.

c. Pollutant source controls including actinide migration evaluations.

d. Design, construction and operation of groundwater containment and treatment systems.

e. Administrative closure of low ranked IHSSs.

f. Remediating high ranked IHSSs.

g. Continuing the landlord operations and maintenance functions for the 130 and other miscellaneous buffer zone clusters areas until D&D activities have been completed.

h. Operation of the firing range and live fire shoothouse until SNM materials have been shipped offsite.

i. Closure by capping the original sanitary landfill (1952 - 1968).

j. Removal of non-post closure monitoring groundwater network wells and surface water gaging and monitoring stations.

k. Removal of 130/buffer zone cluster buildings, facilities and equipment.

l. Breaching of RFETS dams (12) to create stormwater-fed wetland areas.

Technical Approach: Remediation of contaminated areas at the Site (termed IHSSs) entail removing as much of the source of contamination as possible. The remediation of high ranked IHSSs will be conducted by excavating the contaminated media, and subsequent use of containment and treatment technologies. Soils that are contaminated with radionuclides above the negotiated Tier I levels will be containerized and shipped for disposal. The remaining material will be placed back into their respective excavations. The Existing Sanitary Landfill (1968-present) would be consolidated, stabilized and capped in place. The capping of this unit would probably utilize a capillary break type cap. Groundwater will be collected using a passive collection system and then treated with a reactive media to destroy chlorinated solvents and/or adsorptive media will be used to capture radionuclides/metals if necessary. Studies have indicated that groundwater is hydraulically collected to surface water. Therefore, the collection and treatment of groundwater is important to minimize impacts to surface water per RFCA. The operation and monitoring of the RFETS pond system will continue until D&D and capping activities are complete in the event of a potential release. Near the end of these closure activities, the ponds will be converted from a water detention system to a series of breached dams creating and maintaining natural wetlands. The existing remote telemetry system for tracking detention pond water levels, valve orientations, automated samplers and field power will transition to track relevant field parameters for end state surveillance monitoring.

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## **Project Description Narratives**

The 130/buffer zone clusters of buildings, facilities and equipment and firing range/live fire shoothouse will continue operations until all of the SNM materials have been moved offsite and the 130 office space is no longer needed for administration or economic conversion purposes.

Rocky Flats will monitor the progress of both commercial and DOE supported environmental remediation/restoration technology development activities that could lead to accelerated actions and/or reduced Site cost and risk. Once applicable technologies have been demonstrated, their inclusion will be encouraged in commercial implementation of the cleanup. Examples of specific technology development activities that could support the Buffer Zone Project include: reactive barrier treatment of groundwater, low temperature thermal desorption, improved UV oxidation systems, improved DNAPL recovery systems and buried waste drum retrieval. Currently technology deployment activities occurring within the RFETS ER program include application of passive groundwater treatment using reactive metal barrier (RMB) treatment.

### **Project Status in FY 2006:**

All work scope will have been completed with the exception of required surface water monitoring, ground water monitoring, watershed maintenance and support to obtain final approval of the Buffer Zone CAD/ROD.

### **Post-2006 Project Scope:**

Post 2006 scope will consist of surface water monitoring, ground water monitoring and watershed maintenance required through Site closure and support to obtain final approval of the Buffer Zone CAD/ROD. Once the closure project is complete, all post closure monitoring activities will become part of RF029 (RFFO Program Direction Project).

### **Project End State**

The end state for this project is after the completion of IHSS remediation, installation of all the groundwater containment/treatment systems, conversion of the surface water pond system to wetlands, capping the landfill, removal of surface and groundwater equipment (non-post closure) and the D&D of the SECBZO, INFMT, 130, H20GBZ, H20SBZ, H20SIZ, SECBZI, INFLFN, 903/905, and PU&D clusters. Post-closure surveillance monitoring (surface & groundwater) will be part of project RF029 (RF0621)

### **Cost Baseline Comments:**

Cost estimates are based on assumptions and data developed by the technical groups that have responsibility for managing the work. To the extent practical, all cost estimates are Activity-Based Costs (ABC) and tied directly to a defined and detailed work scope. The estimates are developed at the activity level and are further divided into line items. Line items represent individual resource contributions to activities and are the lowest level of input to the planning system. Once the cost estimate is developed, each activity is evaluated for cost, technical and schedule risk and the appropriate contingency is determined. Detailed estimates and the basis of estimates (BOEs) for the 2006 Closure Plan are available at the Site.

### **Safety & Health Hazards:**

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## **Project Description Narratives**

The principle hazards in the Buffer Zone Closure Project are low radiological and chemical contamination as well as other standard industrial hazards. Most of these hazards will exist throughout the project and are related to surface water pond discharge and dam/watershed maintenance operations, groundwater well installations and routine monitoring activities, surface water flume installations and routine monitoring activities, environmental remediation/restoration activities and building/facility D&D removals end state closure and post-closure environmental media surveillance activities. These hazards will be analyzed and categorized in accordance with the RFETS Safety and Health Program infrastructure policies, manuals, and procedures.

### **Safety & Health Work Performance:**

This project will be completed within the RFETS Safety and Health Program and within the controls and authorization basis documents defined above to ensure the safety and health of the worker, public and the environment. RFETS has implemented an integrated safety management system consisting of the following elements: radiological safety, criticality safety, emergency management, fire safety, industrial hygiene, nuclear safety, occupational medicine, occupational safety, safeguards and security, safety integration, performance oversight, and standards management. RFETS provides Site wide infrastructure programs for each functional area to establish consistent safety standards and support for this project. Safety and health success results from the efficient and effective implementation of these programs. This project is responsible for ensuring that the necessary elements of the safety and health programs are incorporated into the specific project plans and implementing documents, and that an appropriate Readiness Determination and Safety Evaluation Screen (SES)/Unreviewed Safety Question Determination (USQD) have been performed.

### **PBS Comments:**

New waste reported is from ER deactivation and D&D activities. Routine waste is captured in project No. 2.

### **Baseline Validation Narrative:**

Although the 2006 Closure Plan has not been officially validated, it has undergone a high level review by Rocky Flats Field Office (RFFO) and Headquarter personnel. Current independent validation efforts include the following: 1) RFFO has contracted an independent firm to perform a baseline confidence review of the 2006 Closure Plan by the end of FY99, and 2) the Office of Field Management (FM) has contracted a big-five accounting firm to validate the 2006 Closure Plan.

In addition to the 2006 Closure Plan validation efforts, results/recommendations from several previous baseline validation efforts were used in the development of the 2006 Closure Plan. These validations included: 1) The U.S. Army Corps of Engineers (USACE) performed a validation of the Rocky Flats Ten Year Plan in FY97/FY98, 2) Kaiser-Hill contracted Price Waterhouse Coopers, LLP to conduct an independent validation effort of the 2010 Closure Project Baseline that concluded in May of FY99, and 3) Kaiser-Hill engaged Arthur Andersen, LLP to conduct a schedule and cost risk review of the 2010 Closure Project Baseline.

## **General PBS Information**

**Project Validated?**

**Date Validated:**

**Has Headquarters reviewed and approved project?**

No

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## General PBS Information

Date Project was Added: 12/1/1997

Baseline Submission Date:

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	Y	Y	Y

## Project Identification Information

DOE Project Manager: Jessie Roberson

DOE Project Manager Phone Number: 303-966-2263

DOE Project Manager Fax Number: 303-966-4775

DOE Project Manager e-mail address: ten.year.plan@rfets.gov

Is this a High Visibility Project (Y/N):

## Planning Section

### Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	274,282	2,224	276,506	14,407	14,407	17,055	17,055	15,908	10,615	19,217	48,096	32,684	28,231	33,749	54,320
PBS Baseline (constant 1999 dollars)	252,464	1,872	254,336	14,407	14,407	17,055	17,055	15,908	10,336	18,327	44,925	29,901	25,296	29,618	46,691
PBS EM Baseline (current year dollars)	274,282	2,224	276,506	14,407	14,407	17,055	17,055	15,908	10,615	19,217	48,096	32,684	28,231	33,749	54,320
PBS EM Baseline (constant 1999 dollars)	252,464	1,872	254,336	14,407	14,407	17,055	17,055	15,908	10,336	18,327	44,925	29,901	25,296	29,618	46,691

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	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	2,224	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	1,872	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	2,224	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	1,872	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

## Project Reconciliation

### Project Completion Date Changes:

Previously Projected End Date of Project: 9/30/2010

Current Projected End Date of Project: 12/29/2006

Explanation of Project Completion Date Difference (if applicable):

Scope Deletion

Efficiencies

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## Project Reconciliation

### New Scope

New Landlord scope includes services such as Nuclear Safety, Radiological Engineering, Laundry, Facility Management Overhead Support, etc. that were transferred into this PBS from other PBSs.

In response to RFFO requirements additional scope was added as follows:

- 1) documentation for ten No Action/No Further Action justifications for acceptance of closure
- 2) fifteen additional subsurface radiological boreholes are required to provide additional data on the extent of radiological contamination surrounding the 903 Pad
- 3) boundary survey in order to obtain legal description of a land parcel in the vicinity of the Rock Creek Drainage Area of the Buffer Zone.
- 4) McKay Ditch construction to resolve City Broomfield water concerns.
- 5) biological assessment to accomplish the programmatic consultation outlined in the Memorandum of Agreement between DOE and the U.S. Fish and Wildlife Service
- 6) as a result of the Biological Opinion on 2/15/99, mitigative measures (planting native shrubs for Prebles mouse habitat enhancements and perform daily stabilizations) are required to minimize impacts to threatened and endangered species and minimize contamination from storm water run-off.

### Cost Growth

The costs have been revised to be consistent with the Facility Disposition Cost Model that was developed to improve the basis and accuracy of the out year decommissioning cost estimates. This model is based on actual decommissioning costs incurred at Rocky Flats and actual cost data or bottom up estimates from other government and commercial facilities.

### Science & Technology

Implement the East Trenches Plume Remedial action per the January and March 1999 Financial Plans for the DOE EM-50 Technology Deployment Area, equal to \$750K.

### Other

The scope of work and end state conditions for the 2006 Plan are similar to the current 2010 Baseline, with a four-year acceleration and a reduction in cost being the two most significant differences. The bottom-up estimate for the 2006 Plan is a \$1.65 billion improvement over the comparable activity-based bottoms-up detail estimate for 2010.

To close the Site four years earlier than the current 2010 Baseline requires a strategically different approach. The two key principles followed in preparing the 2006 Baseline were: 1) safely reducing the urgent risks first, and 2) performing work in a sequence that reduces or eliminates operations, maintenance and security costs (often referred to as - mortgage costs) as early as possible. Key to the 2006 Baseline approach is early closure of the secured Protected Area. Closing the Protected Area as soon as possible means that the high security and maintenance costs for this area can be redeployed to accelerate other closure activities. In addition, D&D and SNM risk reduction activities will be performed simultaneously rather than sequentially, supporting both the risk reduction and mortgage reduction principles. The D&D of non- and lower-contaminated facilities and most environmental remediation work will be deferred until later in the project to allow resources to be focused in the areas that result in the greatest reduction in risks and mortgage costs.

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## Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	218,412	Actual 1997 Cost:	14,407	Actual 1998 Cost:	17,055
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	186,950	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			5,048

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## Project Reconciliation

Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): 191,998

## Project Cost Changes

### Cost Adjustments Reconciliation Narratives

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+): 32,095 Rebaselining due to acceleration. New scope dollar estimate is not of audit quality.

Cost Growth Associated with Scope Previously Reported (+):

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal: 224,093

Additional Amount to Reconcile (+): -1,219

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): 222,874

## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
FY99-M5 Cmpl Install & Op East Trenches	RF-0236		9/30/1999	9/30/1999	9/30/1999		Y				
FY98-M7 Complete Trench T-1 Accel Cleanup	RF-0238		8/20/1998	8/20/1998	8/20/1998		Y				
FY-99-M11a Complete 903 PAD Characterization	RF-0241		9/30/1999	9/30/1999	9/30/1999		Y				
FY-99-M11b Complete 903 PAD RAD Borehole Charact	RF-0242		12/20/1999	12/20/1999	12/20/1999		Y				
Remediate PU&D Yard Plume ( South of Landfill )	RF-0243		9/30/1999	9/30/1999	9/30/1999		Y				
FY01-M1 Initiate 903 Pad Remediation	RF-0244		4/25/2001	4/25/2001	4/25/2001		Y				
Draft Buffer Zone ROD Prepared	RF-0573		12/29/2006		12/29/2006						
Cmpl INFLFN (New Landfill/West) Cluster Closure	RF-0589		9/29/2006		9/29/2006						
Complete PBD 001 - Buffer Zone Closure Project	RF-OTHE-01		12/29/2006		12/29/2006					Y	

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## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
FY99-M8 Cmpl Offsite Shipments Of All T-1 Waste	RF-0132		9/30/1999	9/30/1999	9/30/1999		Y				
FY03-M4 Complete Remediation 903 PAD & Waste	RF-0231		9/16/2003		9/16/2003						
FY99-M4 Cmpl Install & Op Solar Pond Plume	RF-0235		9/30/1999	9/30/1999	9/30/1999		Y				
PBD001 Project Start			10/1/1997								
PBD002 Project Start			10/1/1997								

## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
FY99-M5 Cmpl Install & Op East Trenches	RF-0236										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
FY98-M7 Complete Trench T-1 Accel Cleanup	RF-0238										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
FY-99-M11a Complete 903 PAD Characterization	RF-0241										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
FY-99-M11b Complete 903 PAD RAD Borehole Charact	RF-0242										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
Remediate PU&D Yard Plume ( South of Landfill )	RF-0243										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
FY01-M1 Initiate 903 Pad Remediation	RF-0244										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
Draft Buffer Zone ROD Prepared	RF-0573	Y									Kaiser Hill Internal ( KHIs ) Milestones
Cmpl INFLFN (New Landfill/West) Cluster Closure	RF-0589	Y									Kaiser Hill Internal ( KHIs ) Milestones
Complete PBD 001 - Buffer Zone Closure Project	RF-OTHE-01				Y	Y					Kaiser Hill Internal ( KHIs ) Milestones

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## Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
FY99-M8 Cmpl Offsite Shipments Of All T-1 Waste	RF-0132										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
FY03-M4 Complete Remediation 903 PAD & Waste	RF-0231	Y									Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
FY99-M4 Cmpl Install & Op Solar Pond Plume	RF-0235										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
PBD001 Project Start				Y							PBD001 Project Start
PBD002 Project Start				Y						Y	PBD002 Project Start

## Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
<b>RS</b>														
Assess.	NR	65.00	0.00	65.00	20.00	30.00	30.00	10.00	8.00				8.00	1.00
<b>RS</b>														
Cleanup	NR	80.00	0.00	80.00	22.00	31.00	32.00	11.00	9.00	1.00	6.00		9.00	1.00
<b>Fac.</b>														
Decom.- Assess.	NF	58.00	0.00	58.00									6.00	22.00
<b>Fac.</b>														
Decom- Cleanup	NF	58.00	0.00	58.00										6.00
<b>Tech.</b>														
Deployed	Ntd	6.00	0.00	6.00					2.00	4.00				
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	

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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
RS													
Assess.	NR	1.00	8.00										
RS													
Cleanup	NR	1.00	9.00	3.00									
Fac.													
Decom.- Assess.	NF	22.00	30.00										
Fac.													
Decom- Cleanup	NF	6.00	22.00	30.00									
Tech.													
Deployed	Ntd												
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total			
RS													
Assess.	NR								23.00	111.00			
RS													
Cleanup	NR								13.00	111.00			
Fac.													
Decom.- Assess.	NF									58.00			
Fac.													
Decom- Cleanup	NF									58.00			
Tech.													
Deployed	Ntd								2.00	6.00			

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## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	0001		IHSS 102 \ Oil Sludge Pit	Waste/Pits	1997		9/30/1997	1997		3/12/1997		Y	Approved	N
RFTS	0002		IHSS 103 \ Chemical Burial	Waste/Pits	1997		9/30/1997	1997		3/12/1997		Y	Approved	N
RFTS	0003		IHSS 104 \ Liquid Dumping	Waste/Pits	1997		9/30/1997	1997		3/12/1997		Y	Approved	N
RFTS	0014		IHSS 108 \ Trench T-1	Waste/Trenches / Outfalls	1997		9/30/1997	1998		8/20/1998		N	Approved	Y
RFTS	0016		IHSS 110 \ Trench T-3	Waste/Trenches / Outfalls	1997			1997		9/30/1996		N	Approved	Y
RFTS	0017		IHSS 111.1 \ Trench T-4	Waste/Trenches / Outfalls	1997			1997		9/30/1996		N	Approved	Y
RFTS	0018		IHSS 111.2 \ Trench T-5	Waste/Trenches / Outfalls				2001				N	Approved	Y
RFTS	0019		IHSS 111.3 \ Trench T-6	Waste/Trenches / Outfalls				2001				N	Approved	Y
RFTS	0020		IHSS 111.4 \ Trench T-7	Waste/Trenches / Outfalls	2003			2005				N		Y
RFTS	0021		IHSS 111.5 \ Trench T-8	Waste/Trenches / Outfalls				2001				N	Approved	Y
RFTS	0022		IHSS 111.6 \ Trench T-9	Waste/Trenches / Outfalls				2001				N	Approved	Y
RFTS	0023		IHSS 111.7 \ Trench T-10	Waste/Trenches / Outfalls				2001				N	Approved	Y
RFTS	0024		IHSS 111.8 \ Trench T-11	Waste/Trenches / Outfalls				2001				N	Approved	Y
RFTS	0026		IHSS 113 \ Mound Area	Waste/Landfills	1997			1997		9/30/1997		N	Approved	Y
RFTS	0028		IHSS 153 \ Oil Burn Pit No. 2	Waste/Burn Pits	2005			2005				N	Approved	Y
RFTS	0029		IHSS 154 \ Pallet Burn Site	Waste/Miscellaneous Surface Debris	2005			2005				N	Approved	N

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Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0202**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	0030		IHSS 155 \ 903 Lip Area	Dispersed Surface Contamination/Land Farms	1999		9/30/1999	2003				N		Y
RFTS	0037		IHSS 202 \ Mower Reservoir	Surface and Groundwater/Sediments	1997		6/1/1997	1997		6/1/1997		Y	Approved	Y
RFTS	0041		IHSS 115 \ Original Landfill	Waste/Landfills	2003			2003				N		Y
RFTS	0045		IHSS 133.5 \ Incinerator	Above Ground Material / Waste/Debris Piles	1997		9/30/1997	1997				N	Approved	Y
RFTS	0046		IHSS 133.6 \ Concrete Wash Pad	Above Ground Material / Waste/Muck Piles	1997		9/30/1997	1997				N	Approved	N
RFTS	0115		IHSS 170 \ PU&D Storage Yard	Above Ground Material / Waste/Storage Yards and Pads	1998		9/30/1998			9/30/1997		Y	Approved	Y
RFTS	0129		IHSS 168 \ West Spray Field	Dispersed Surface Contamination/Land Farms	1995		9/30/1995	1995		9/30/1995		Y	Approved	Y
RFTS	0178		IHSS 195 \ Nickel Carbonyl Disposal	Waste/Pits	1994		10/31/1994	1994		10/31/1994		Y	Approved	N
RFTS	3005		PAC NE-1404 \ Diesel Spill at Pond B-2 Spillway	/	1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3006		PAC NE-1405 \ Diesel Spill at Field Treatability Unit	/	1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3010		IHSS 174a \ PU&D Yard - Drum Storage	/	1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3011		IHSS 174b \ PU&D Yard - Dumpster Storage	/	1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3018		PAC 900-1313 \ Seep Area Near OU2 Influent	/	1999		9/30/1999	1999				N	Approved	
RFTS	3031		IHSS 105.1 \ West Out-of-Service Tank	/	1997		9/30/1997	1997		3/12/1997		Y	Approved	
RFTS	3032		IHSS 105.2 \ East Out-of-Service Tank	/	1997		9/30/1997	1997		3/12/1997		Y	Approved	

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HQ ID: **0202**

Project **RF001 / Buffer Zone Closure Project**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	3033		IHSS 106 \ 106 Outfall	/	1997		9/30/1997	1997		3/12/1997		Y	Approved	
RFTS	3034		IHSS 107 \ 107 Hillside Oil Leak	/	1997		9/30/1997	1997		3/12/1997		Y	Approved	
RFTS	3035		IHSS 109 \ Ryan's Pit (Trench 2)	/	1997			1997		9/30/1996		N	Approved	
RFTS	3036		IHSS 112 \ 903 Pad	/	1999		9/30/1999	2003				N		
RFTS	3044		IHSS 119.1 \ Solvent Spill Site OU1	/	1997		9/30/1997	1997		3/12/1997		Y	Approved	
RFTS	3045		IHSS 119.2 \ E. Scrap Metal Storage	/	1997		9/30/1997	1997		3/12/1997		Y	Approved	
RFTS	3063		IHSS 133.1 \ Ash Pit 1	/	2003			2003				N		
RFTS	3064		IHSS 133.2 \ Ash Pit 2	/	2003			2003				N		
RFTS	3065		IHSS 133.3 \ Ash Pit 3	/	2003			2003				N		
RFTS	3066		IHSS 133.4 \ Ash Pit 4	/	2003			2003				N		
RFTS	3077		IHSS 140 \ Haz Disposal Area	/	1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3079		IHSS 142.1 \ Pond A-1	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3080		IHSS 142.10 \ Pond C-1	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3081		IHSS 142.11 \ Pond C-2	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3082		IHSS 142.12 \ Pond A-5	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3083		IHSS 142.2 \ Pond A-2	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3084		IHSS 142.3 \ Pond A-3	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3085		IHSS 142.4 \ Pond A-4	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3086		IHSS 142.5 \ Pond B-1	/	2005			2006				N		
RFTS	3087		IHSS 142.6 \ Pond B-2	/	2005			2006				N		
RFTS	3088		IHSS 142.7 \ Pond B-3	/	2005			2006				N		
RFTS	3089		IHSS 142.8 \ Pond B-4	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	

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Project **RF001 / Buffer Zone Closure Project**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	3090		IHSS 142.9 \ Pond B-5	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3094		IHSS 145 \ Sanitary Waste Leak	/	1997		9/30/1997	1997		3/12/1997		Y	Approved	
RFTS	3117		IHSS 156.2 \ Soil Disposal Area	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3130		IHSS 166.1 \ Landfill Trench A	/	1996		9/30/1996	1996		9/30/1996		Y	Approved	
RFTS	3131		IHSS 166.2 \ Landfill Trench B	/	1996		9/30/1996	1996		9/30/1996		Y	Approved	
RFTS	3132		IHSS 166.3 \ Landfill Trench C	/	1996		9/30/1996	1996		9/30/1996		Y	Approved	
RFTS	3133		IHSS 167.1 \ Landfill Pond Spray Area	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3134		IHSS 167.2 \ Landfill Pond Spray Area	/	1996		9/30/1996	1996		9/30/1996		Y	Approved	
RFTS	3135		IHSS 167.3 \ Landfill Pond Spray Area	/	1996		9/30/1996	1996		9/30/1996		Y	Approved	
RFTS	3148		IHSS 183 \ Gas Detox Area	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3156		IHSS 196 \ Backwash Pond (Listed as OU-5 on Map)	/	2003			2003				N		
RFTS	3158		IHSS 199 \ Offsite Land Surface	/	1997			1997		6/1/1997		Y	Approved	
RFTS	3159		IHSS 200 \ Great Western Res.	/	1997			1997		6/1/1997		Y	Approved	
RFTS	3160		IHSS 201 \ Standley Lake	/	1997			1997		6/1/1997		Y	Approved	
RFTS	3161		IHSS 203 \ Inactive HW Stor.	/	1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3167		IHSS 209 \ Surface Disturbance	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3174		IHSS 216.1 \ East Spray Field-North Area	/	1996		9/30/1996	1996		9/30/1996		Y	Approved	
RFTS	3175		IHSS 216.2 \ East Spray Field-Center Area	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3176		IHSS 216.3 \ East Spray Field-South Area	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3179		PAC 000-501 \ Roadway Spraying	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3276		PAC 900-1307 \ Explosive Bonding Pit	/	1999			1999				N	Approved	
RFTS	3278		PAC 900-1309 \ OU 2 Field Treatability Unit	/	1999		9/30/1999	1999				N	Approved	

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## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
			Spill											
RFTS	3280		PAC 900-1311 \ Septic Tanks East of Building 991	/	1999		9/30/1999	1999				N	Approved	
RFTS	3281		PAC 900-1312 \ OU 2 Water Spill	/	1999		9/30/1999	1999				N	Approved	
RFTS	3284		PAC 900-1316 \ Elevated Chromium Identified During Geotechnical Drilling	/	1995		9/30/1995	1995		9/30/1995		Y	Approved	
RFTS	3286		PAC 900-1318 \ Release of F001 Listed Waste to Soil	/	1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3287		PAC NE-1400 \ Tear gas Powder Release	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3288		PAC NE-1401 \ NE Buffer Zone Gas Line Break	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3289		PAC NE-1402 \ East Inner Gate PCB Spill	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3290		PAC NE-1403 \ Gasoline Spill - Building 920 Guard Post	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3291		PAC NE-1406 \ 771 Hillside Sludge Release	/	1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3292		PAC NE-1407 \ OU2 Treatment Facility	/	2005			2005				N	Approved	
RFTS	3293		PAC NE-1408 \ OU2 Test Well (formerly NE-1406)	/	2005		9/30/1999	2005				N	Approved	
RFTS	3294		PAC NE-1409 \ Modular Tanks and 910 Treatment Sys Spill (formerly 000-503)	/	2005		9/30/1999	2005				N	Approved	
RFTS	3295		PAC NE-1410 \ Diesel fuel Spill at field Treatability Unit	/	1994		9/30/1994	1994		9/30/1994		Y	Approved	
RFTS	3296		PAC NE-1411 \ Diesel Fuel Overflowed from Tanker @ OU2	/	1994		9/30/1994	1994		9/30/1994		Y	Approved	
RFTS	3297		PAC NE-1412 \ Trench T-12 Located @ OU2 East Trenches	/	2005			2005				N	Approved	

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## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	3298		PAC NE-1413 \ Trench T-13 Located @ OU2 / East Trenches		2005			2005				N	Approved	
RFTS	3299		PAC NW-1500 \ Diesel Spill @ PU&D Yard (formerly NW-175)		1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3300		PAC NW-1501 \ Asbestos Release @ PU&D Yard (formerly NW-176)		2005		9/30/1999	2005				N	Approved	
RFTS	3301		PAC NW-1503 \ Improper Disposal of Diesel Contaminated Material at Landfill (formerly NW-177)		1994		9/30/1998	1994		9/30/1998		Y	Approved	
RFTS	3302		PAC NW-1504 \ Improper Disposal of Thorosilane Contaminated Material at Landfill		1994		9/30/1994	1994		9/30/1998		Y	Approved	
RFTS	3303		PAC SE-1600 \ Pond 7 - Steam Condensate Releases		1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3304		PAC SE-1601 \ Pond 8 - Colling Tower Discharge Releases		1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3305		PAC SW-1700 \ Fuel Spill into Woman Creek Drainage		1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3306		PAC SW-1701 \ Recently Identified in Ash Pit		1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3307		PAC SW-1702 \ Recently Identified in Ash Pit		2003			2003				N		
RFTS	3314		PLM 881APLM \ B881 Area Plume									N		
RFTS	3315		PLM 881PLM \ 881 Hillside Plume									N		
RFTS	3316		PLM CTPLM \ Carbon Tet Plume									N		
RFTS	3317		PLM ETPLM \ East Trenches Plume		1999			1999		9/23/1999		N		
RFTS	3318		PLM IAPLM \ Industrial Area Plume		2004			2004				N		
RFTS	3319		PLM MNDPLM \ Mound Plume					1998		9/18/1998		N	Approved	
RFTS	3320		PLM OLPLM \ Old Landfill Plume									N		

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## Release Sites

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RFTS	3321		PLM PUDPLM \ PU&D Yard Plume	/			9/30/1999	1999				N		
RFTS	3322		PLM RPPLM \ 903 Pad/Ryan's Pit Plume	/				1999				N		
RFTS	3323		PLM SPPLM \ Nitrate (Solar Pond) Plume	/				1999		9/22/1999		N		
RFTS	3331		PRJ FDPRJ \ OU 1 French Drain Removal	/				2000				N		

## Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	0007		130SY \ MAINTENANCE STORAGE YARD (N of 130)	\		2005						2006				N		
RFTS	0076		900ATM \ CFFCU AUTOMATED TELLER MACHINE (E Gate)	\		2004						2005				N		
RFTS	0083		932 \ EFFLUENT MONITORING STATION (Pond A-1)	\		2004						2005				N		
RFTS	0097		C130 \ STORAGE YARD CONTAINER (N of 130)	\		2005						2006				N		
RFTS	0100		ITSP \ INTERCEPTOR TRENCH SYSTEM PIPELINES	\		2004						2005				N		
RFTS	0101		NSY \ NORTH STORAGE YARDS	\		2003						2004				N		
RFTS	0102		OLF \ *ORIGINAL (CLOSED) LANDFILL S.OFCACTUS AT 460	\		2005						2006				N		
RFTS	0104		PU&D \ PU&D YARD	\		2003						2004				N		
RFTS	0329		T130A \ OFFICES	\		2005						2006				N		

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## Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	0330		T130B \ OFFICES	\		2005						2006				N		
RFTS	0331		T130C \ OFFICES	\		2005						2006				N		
RFTS	0332		T130D \ OFFICES	\		2005						2006				N		
RFTS	0333		T130E \ OFFICES & COMPUTER-BASED TRAINING CENTER	\		2005						2006				N		
RFTS	0334		T130F \ OFFICES	\		2005						2006				N		
RFTS	0335		T130G \ OFFICES	\		2005						2006				N		
RFTS	0336		T130H \ OFFICES	\		2005						2006				N		
RFTS	0337		T130I \ OFFICES	\		2005						2006				N		
RFTS	0338		T130J \ OFFICES	\		2005						2006				N		
RFTS	0339		T131A \ OFFICES	\		2005						2006				N		
RFTS	0340		T303C \ OFFICES (Storage Yard)	\		2003						2004				N		
RFTS	0373		120 \ GUARD POST (WEST ACCESS)	\		2005						2006				N		
RFTS	0374		T120A \ TRAILER (ACCESS CONTROL/BADGING)	\		2005						2006				N		
RFTS	0375		920 \ GUARD POST (EAST ACCESS)	\		2005						2006				N		
RFTS	0376		Tank 043 \ SEPTIC TANK (SE of 120)	\		2005						2006				N		
RFTS	0377		Tank 243 \ ABANDONED STORAGE TANK (UST 32) (foamed in place) (NW of 920)	\		2005						2006				N		

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## Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	0378		Tank 247 \ SEPTIC TANK (NE \ of 920)			2005						2006				N		
RFTS	0379		Tank 287 \ ABANDONED STORAGE TANK (DIESEL BLEND) (UST 1) (foamed in place) (SE of 120)			2005						2006				N		
RFTS	0380		Tank 318 \ STORAGE TANK (DIESEL BLEND) (E of 120)			2005						2006				N		
RFTS	0381		Tank 319 \ STORAGE TANK (DIESEL BLEND) (NW of 920)			2005						2006				N		
RFTS	0382		TK- 1A \ ABOVEGROUND STORAGE TANK (#2 DIESEL) ( replacement for UST 1/Tank 287) (SE of 120)			2005						2006				N		
RFTS	0383		TK-32A \ ABOVEGROUND STORAGE TANK (DIESEL) (replacement for UST 32/Tank 243) (NW of 920)			2005						2006				N		
RFTS	0804		132 \ ELECTRICAL SUBSTATION #9			2005						2006				N		
RFTS	0806		130 \ PLANT ENGINEERING OFFICES & WAREHOUSE & CAFETERIA			2005						2006				N		
RFTS	0807		131 \ OFFICES			2005						2006				N		
RFTS	0840		308B \ INTERCEPTOR TRENCH PUMP HOUSE (E of 308B-C)			2004						2005				N		
RFTS	0841		308B-A \ ITS WASTE STORAGE TANK (aka Tank			2004						2005				N		

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## Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
			341)															
RFTS	0842		308B-B \ ITS WASTE STORAGE TANK (aka Tank 343)	\		2004						2005				N		
RFTS	0843		308B-C \ ITS WASTE STORAGE TANK (aka Tank 344)	\		2004						2005				N		
RFTS	0844		T900C \ GROUND WATER TREATMENT TRAILER	\		2004						2005				N		
RFTS	0845		T900D \ OFFICES	\		2004						2005				N		
RFTS	0848		Tank 330 \ STORAGE TANK (DIESEL BLEND) (OU2)	\		2004						2005				N		
RFTS	0849		930 \ EFFLUENT MONITOR STATION (990)	\		2004						2005				N		
RFTS	0850		931 \ EFFLUENT MONITOR STATION (995, aka Gaging Station #10)	\		2004						2005				N		
RFTS	0851		303 \ LIVE FIRE RANGE	\		2003						2004				N		
RFTS	0852		T303A \ OFFICES (Shooting Range)	\		2003						2004				N		
RFTS	0853		T303B \ OFFICES (Shooting Range)	\		2003						2004				N		
RFTS	0854		180 \ METEOROLOGICAL DATA COLLECTION STATION (TOWERS & SUPPORT BLDG) (NW)	\		2005						2006				N		
RFTS	0855		181 \ METEOROLOGICAL DATA COLLECTION	\		2005						2006				N		

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF001 / Buffer Zone Closure Project**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0202**

## Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
			STATION (TOWER) (WOMAN CREEK)															
RFTS	0856		306 \ WATER SAMPLING STATION (Walnut Creek)	\		2004						2005				N		
RFTS	0857		933 \ EFFLUENT MONITOR STATION (Indiana & Walnut Creek)	\		2004						2005				N		
RFTS	0858		934 \ EFFLUENT MONITOR STATION (Woman Creek)	\		2004						2005				N		
RFTS	0859		994 \ EFFLUENT MONITORING STATION (Pond B-4)	\		2004						2005				N		
RFTS	0860		Tent 14 \ A-4 POND STORAGE TENT	\		2004						2005				N		
RFTS	0861		Tank 331 \ STORAGE TANK (DIESEL BLEND) (Pond A-4)	\		2004						2005				N		
RFTS	0862		Tank 332 \ PROPANE TANK (Pond A-4)	\		2004						2005				N		
RFTS	0863		Tank 333 \ PROPANE TANK (Pond A-4)	\		2004						2005				N		
RFTS	0864		Tank 362 \ CYCLED WATER STORAGE TANK (C POND)	\		2004						2005				N		
RFTS	0865		Tank 363 \ CYCLED WATER STORAGE TANK (C POND)	\		2004						2005				N		

## Technology Needs

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF001 / Buffer Zone Closure Project**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0202**

## Technology Needs

Site Need Code: RF-ER14

Site Need Name: Characterization/Detection/Verification of Non-Aqueous Phase Liquids (NAPLs)

Focus Area Work Package ID: SS-01

Focus Area Work Package: Characterization, Monitoring, Modeling and Analysis

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01376: ER-02 - Groundwater

Y

N

Site Need Code: RF-ER13

Site Need Name: Capping or Treatment (Stabilization) for the Rocky Flats Ash Pits

Focus Area Work Package ID: SS-04

Focus Area Work Package: Long-Lived Caps

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

Alternative Landfill Cover

In Situ Vitrification Bottoms-up

Innovative Grout (In Situ Stabilization)

In Situ Stabilization and Retrieval System

Long-Term Surface Barriers

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF001 / Buffer Zone Closure Project**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0202**

## Technology Needs

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01384: ER-03B - Soil to LL

Y

N

01374: ER-01A - LL ER Debris

Y

N

01382: ER-03AA - Treated Soil to On Site Placement

Y

N

Site Need Code: RF-ER15

Site Need Name: Improved Statistical Methods for Sampling and Monitoring Plans and Data Analysis

Focus Area Work Package ID: SS-01

Focus Area Work Package: Characterization, Monitoring, Modeling and Analysis

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01380: ER-03 - Soil

Y

N

01384: ER-03B - Soil to LL

Y

N

01376: ER-02 - Groundwater

Y

N

Site Need Code: RF-ER09

Site Need Name: Treatment Alternative for Surface Soil Contaminated with Plutonium and other Radionuclides

Focus Area Work Package ID: SS-03

Focus Area Work Package: Stabilization Technologies

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF001 / Buffer Zone Closure Project**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0202**

## Technology Deployments

		Deployment Year		
<u>Deployment Status</u>		<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
<b>Technology Name:</b>	Passive Reactive Barrier			
Deployment Commitment		1999		
Potential Deployment		2000		
<b>Technology Name:</b>	Innovative Grout (In Situ Stabilization)			
Potential Deployment		2000		
<b>Technology Name:</b>	Smart Sampling			
Potential Deployment		1999		
Potential Deployment		2000		
<b>Technology Name:</b>	Innovative DNAPL Characterization Technologies			
Potential Deployment		2000		